IAP7 Rec'd PCT/PTO 16 JUN 2006

PTO-1390 (Rev. 07-2005) Approved for use through 03/31/2007. OMB 0651-0021 U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 612408010US1 DESIGNATED/ELECTED OFFICE (DO/EO/US) 58 97 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE CLAIMED PRIORITY PCT/US2005/014828 29 April 2005 1 May 2004 TITLE OF INVENTION METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL **BANDWIDTH** APPLICANT(S) FOR DO/EO/US Xiaodong Li et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: x This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) 5. x is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. C. d. x have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. 16. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18. 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

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U.S. APPIICHONNET BWZ-65-34				INTERNATIONAL APPLICATION NO. PCT/US2005/014828			ATTORNEY'S DOCKET NUMBER 612408010US1			
20. x Other items or information: Return Receipt Postcard										
The following fees have been submitted							CALCULATIONS PTO USEONLY			PTO USEONLY
21. x Basic national fee (37 CFR 1.492(a))								\$ 300.00		
22. x Examination fee (37 CFR 1.492(c))										
If the written opinion prepared by ISA/US or the international preliminary examination report										
prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)										
23. x Sear	ch fee (3	7 CFR	1.492(b))							
If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)										
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an										
International Searching Authority								\$ 100.00		
previously communicated to the US by the IB \$400 All other situations \$500										
			and 23 =				\$	600.0	0	
				ed in paper over 100 she				-		
electro	nic mediu	m) (37 CI	R 1.492(j)).	1.821(c) or (e) or compu		•				
The fe	e is \$250 i	for each a	idditional 50 shee	ts of paper or fraction the	reof	•				
Total Sheets	Extra St	neets	Number of each additional 50 or fraction RATE thereof (round up to a whole number)							
35 - 100 =	35 - 100 = /50 =		x \$250.00		\$					
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).										
		BER FILED NUMBER EXTRA		RATE	50.50					
<del></del>		1 - 20 =			50.00	50.00				
Independent claims 6 - 3 = MULTIPLE DEPENDENT CLAIM(S) (if applicable			3 x 200.00		600.00		<u> </u>			
TOTAL OF ABOVE CALCULATIONS =							\$ 1,250.00			
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.										
							\$ 1.250.00			
SUBTOTAL =							\$ 1,250.00   \$			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).										
TOTAL NATIONAL FEE =								\$ 1,250.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property										
							\$			
TOTAL FEES ENCLOSED =							\$ 1,250.00			
						Amount to be refunded: \$				
						Amount to be charged \$				
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a. A check in the amount of \$ to cove	er the above fees is enclosed.							
b. X Please charge my Deposit Account No. 50-0665 A duplicate copy of this sheet is enclosed.	in the amount of \$ 1,250.00 to cover the above fees.							
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0665 . A duplicate copy of this sheet is enclosed.								
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038								
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status.								
SEND ALL CORRESPONDENCE TO:	M-Macantury SIGNATURE							
	Michelle C. Macartney NAME							
CUSTOMER NUMBER: 25096								
	55,828 REGISTRATION NUMBER							